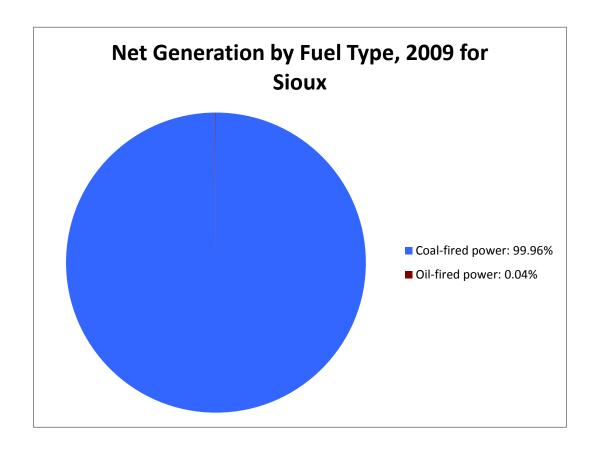


## Power Plant: Sioux Plant Owner: Union Electric Company Power generated in 2009 from non-renewable and renewable sources

	Fuel Percent of Total		Net Electric	Percent	Percent of Total	
	Consumption, MMBTUs			Power Generated in		
	MINIDIUS			2009 (MWh)		
Non-renewable sources				2007 (WI WII)		
Coal-fired power	59,546,886	99.96%		5,758,067	99.96%	
Natural gas-fired power	, ,			•		
Oil-fired power	25,786	0.04%		2,440	0.04%	
Nuclear power						
Other non-renewable						
power						
Non-renewable total	59,572,672	100.00%	100.00%	5,760,507	100.00%	100.00%
Renewable sources						
Hydroelectric Power						
Wind						
Waste and biomass						
Solar						
Geothermal						
Landfill Gas						
Renewable total	0	0.00%	0.00%	0	0.00%	0.00%
Grand total all sources	59,572,672		100.00%	5,760,507		100.00%

Fuel Type	Physical Units	Number of Units
<b>Bituminous Coal</b>	Short Tons	716,417
<b>Sub-Bituminous Coal</b>	Short Tons	2,426,200
Distillate Fuel Oil	Barrels	4,481







## Sioux Emissions from Electricity Generated in 2009

Plant	Carbon	Carbon	Ammonia (NH3)	Nitrogen Oxides	Sulfur Dioxides
	Dioxide(CO2)	Monoxide(CO)	(Tons)	(NOx) (Tons)	(SO2) (Tons)
	(Tons)	(Tons)			
Sioux	5,558,206.67	753.81	0.85	6,640.50	46,457.47

Plant	Volatile Organic	Course	Fine Particulate	Mercury (Hg)
	Compounds	Particulate	Matter (PM2.5)	(LBS)
	(VOC) (Tons)	Matter (PM10)	(Tons)	
		(Tons)		
Sioux	165.62	463.82	438.63	306.00

'NV' = Emissions value not available.



## **Pollution controls installed on Sioux**

SO2 Controls			
Plant	Control Equipment	Sorbent Type	Operational Efficiency
Sioux	No SO2 Controls Installed		

NOX Controls				
Plant	Device Type	Description	Capture	Control
		_	Efficiency	Efficiency
Sioux	SCR (SELECTIVE	SCR FOR	100.00%	90.00%
	CATALYTIC	<b>EMERGENCY</b>		
	REDUCTION)	<b>GENERATORS</b>		

## **Data Sources**

- Emissions Data: Missouri Department of Natural Resources, Air Pollution Control Program, Missouri Emissions Inventory System (MOEIS) http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm
- CO2 Emissions calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data
- Fuel Consumption and Generation Data: United States Energy Information Administration, Form 923, United States Department of Energy http://www.eia.gov/cneaf/electricity/page/eia906\_920.html